

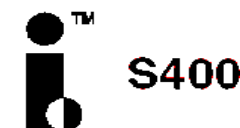
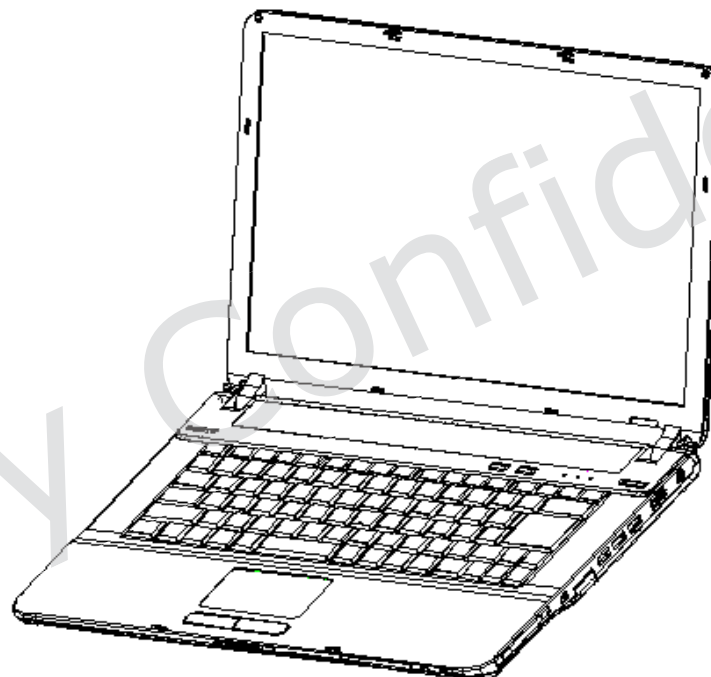
SERVICE MANUAL

Ver.1-2006A

Revision History

J	VGN-FS53B	EU	VGN-FS495VP
	VGN-FS33B		VGN-FS415M
	VGN-FS23B		VGN-FS415E
AM	VGN-FS850P		VGN-FS415MR
	VGN-FS850		VGN-FS415S
	VGN-FS840		VGN-FS415B
	VGN-FS830	AO	VGN-FS48C
	VGN-FS810		VGN-FS48GP
	VGN-FS875P		VGN-FS48SP
	VGN-FS815F		VGN-FS48L
	VGN-FS810FP		
	VGN-FS812F		
	VGN-FS850Q		
	VGN-FS830Q		
	VGN-FS8900P*		
	VGN-FS8900*		

*: CTO Model



- Design and specifications are subject to change without notice.

PERSONAL COMPUTER

SONY®

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Caution Markings for Lithium/Ion Battery-

The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the Manufacturer's

CAUTION: The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C (212°F) or incinerate. Dispose of used battery promptly. Keep Away from children..

CAUTION: Changing the back up battery.

- Overcharging, short circuiting, reverse charging, mutilation or incineration of the cells must be avoided to prevent one or more of the following occurrences; release of toxic materials, release of hydrogen and/or oxygen gas, rise in surface temperature.

- If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection..

Service and Inspection Precautions

***1. Obey precautionary markings and instructions**

- * Labels and stamps on the cabinet, chassis, and components are as requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents..

***2. Use designated parts only**

- * The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages.
- * Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions. Be extra sure to use only the designated components.

***3. Always follow the original design when mounting parts and routing wires**

- * The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it

away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

4. Inspect after completing service

After servicing, inspect to make sure that all screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

5. When replacing chip components..

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.,

6. When handling flexible print boards..

- The temperature of the soldering-iron tip should be about 270 °C.
- Do not apply the tip more than three times to the same pattern.
- Handle patterns with care; never apply force

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

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History of the changes is shown as the
"Revision History" at the end of this data.

CHAPTER1. SPECIFICATIONS

1-1. Specifications

	J		
	VGN-FS53B	VGN-FS33B	VGN-FS23B
CPU	Pentium-M 750(Do1.86)	Pentium-M 740(Do1.73)	Celeron-M 370(Do1.5)
Graphic	915GM	915GM	910GML
LCD	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)
HDD	120GB	100GB	80GB
MEMORY(Slot1)	512MB DDR333	512MB DDR333	512MB DDR333
MEMORY(Slot2)	512MB DDR333	-	-
QUANTITY(STANDARD)	1GB/2GB	512MB/2GB	512MB/2GB
OPT-DRIVE	Super Multi Drive +/- DL	Super Multi Drive +/- DL	Super Multi Drive +/- DL
AC adaptor	AC19V11/10	AC19V11/10	AC19V11/10
Battery	BP2SA	BP2SA	BP2SA
Wireless LAN	O	O	O
Memory Card Adapter	O	O	O
USB FLOPPY DISK DRIVE	X	X	X
OS	XP Home	XP Home	XP Home

*1)Celeron-M 370,Pentium-M 740,Pentium-M 750,Pentium-M 760,Pentium-M 770,Pentium-M780 *2)NV44M,915GM,910GML *3)120GB,100GB,80GB,60GB,40GB

*4)1024*1,1024*2,512MB*1,512MB*2,256MB*2, 256*1 *5)Combo,DVD+/-RW DL,DVD-ROM *6) 802.11b/g, 802.11a/b/g

	AM											
	VGN-FS850P	VGN-FS850	VGN-FS840	VGN-FS830	VGN-FS810	VGN-FS875P	VGN-FS815F	VGN-FS810FP	VGN-FS812F	VGN-FS850Q	VGN-FS830Q	VGN-FS800P*IFS890P
CPU	Pentium-M 750(Do1.86)	Pentium-M 750(Do1.86)	Pentium-M 740(Do1.73)	Pentium-M 740(Do1.73)	Celeron-M 370(Do1.5)	Pentium-M 760(Do2.0)	Celeron-M 380(Do1.6)	Celeron-M 380(Do1.6)	Celeron-M 380(Do1.6)	Pentium-M 750(Do1.86)	Pentium-M 740(Do1.73)	*1)
Graphic	915GM	915GM	915GM	915GM	910GML	NV44M	910GML	910GML	910GML	915GM	915GM	*2)
LCD	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (High Brightness)	15.4"WXGA (High Brightness)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (High Brightness)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)/(High Brightness)
HDD	100GB	100GB	100GB	80GB	80GB	120GB	80GB	40GB	40GB	100GB	100GB	*3)
MEMORY(Slot1)	512MB DDR333	512MB DDR333	512MB DDR333	512MB DDR333	512MB DDR333	512MB DDR333	256MB DDR333	256MB DDR333	256MB DDR333	512MB DDR333	512MB DDR333	*4)
MEMORY(Slot2)	-	-	-	-	-	512MB DDR333	256MB DDR333	-	-	-	-	
QUANTITY(STANDARD)	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	1GB/2GB	512MB/2GB	256MB/2GB	256MB/2GB	512MB/2GB	512MB/2GB	
OPT-DRIVE	DVD+/-RW DL	DVD+/-RW DL	DVD+/-RW DL	DVD+/-RW DL	DVD+/-RW DL	DVD+/-RW DL	DVD+/-RW DL	Combo	Combo	DVD+/-RW DL	DVD+/-RW DL	*5)
AC adaptor	AC19V11	AC19V11	AC19V11	AC19V11	AC19V11	AC19V11	AC19V10	AC19V10	AC19V10	AC19V11	AC19V11	AC19V10
Battery	BP2SA	BP2SA	BP2SA	BP2SA	BP2SA	BP2SA	BP2SA	BP2SA	BP2SA	BP2SA	BP2SA	BP2SA
Wireless LAN	O	O	O	O	O	O	O	O	O	O	O	*6)
Memory Card Adapter	X	X	X	X	X	X	X	X	X	X	X	X
USB FLOPPY DISK DRIVE	X	X	X	X	X	X	X	X	X	X	X	X
OS	XP Pro	XP Home	XP Home	XP Home	XP Home	XP Pro	XP Home	XP Pro	XP Home	XP Home	XP Home	XP Pro/XP Home

- The model that is accompanied by asterisk(*) is the CTO model.
For the equipment configuration, refer to the CTO Information.
- The trademarks or registered trademarks of above ,refer to page2.

	EU					
	VGN-FS495VP	VGN-FS415M	VGN-FS415E	VGN-FS415MR	VGN-FS415S	VGN-FS415B
CPU	Pentium-M 740(Do1.73)	Pentium-M 740(Do1.73)	Celeron-M 390(Do1.7)	Pentium-M 740(Do1.73)	Pentium-M 740(Do1.73)	Pentium-M 740(Do1.73)
Graphic	NV44M	NV44M	910GML	NV44M	NV44M	915GM
LCD	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)
HDD	100GB	80GB	80GB	80GB	100GB	80GB
MEMORY(Slot1)	512MB DDR333	512MB DDR333	512MB DDR333	512MB DDR333	512MB DDR333	512MB DDR333
MEMORY(Slot2)	512MB DDR333	-	-	-	512MB DDR333	-
QUANTITY(STANDARD/MAX)	1GB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	1GB/2GB	512MB/2GB
OPT-DRIVE	DVD+/-RW DL	DVD+/-RW DL	DVD+/-RW DL	DVD+/-RW DL	DVD+/-RW DL	DVD+/-RW DL
AC adaptor	AC19V11	AC19V11	AC19V11	AC19V12	AC19V11	AC19V12
Battery	BP2SA	BP2SA	BP2SA	BP2SA	BP2SA	BP2SA
Wireless LAN	O	O	O	O	O	O
Memory Card Adapter	X	X	X	X	X	X
USB FLOPPY DISK DRIVE	X	X	X	X	X	X
OS	XP Pro	XP Home	XP Home	XP Home	XP Home	XP Home

	AO			
	VGN-FS48C	VGN-FS48GP	VGN-FS48SP	VGN-FS48L
CPU	Pentium-M 740(Do1.73)	Pentium-M 740(Do1.73)	Pentium-M 740(Do1.73)	Pentium-M 740(Do1.73)
Graphic	NV44M	NV44M	NV44M	NV44M
LCD	15.4"WXGA (High Brightness)	15.4"WXGA (High Brightness)	15.4"WXGA (High Brightness)	15.4"WXGA (High Brightness)
HDD	60GB	60GB	60GB	60GB
MEMORY(Slot1)	256MB DDR333	512MB DDR333	512MB DDR333	512MB DDR333
MEMORY(Slot2)	256MB DDR333	-	-	-
QUANTITY(STANDARD/MAX)	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB
OPT-DRIVE	Combo	DVD+/-RW DL	DVD+/-RW DL	DVD+/-RW DL
AC adaptor	AC19V10	AC19V10	AC19V10	AC19V10
Battery	BP2SA	BP2SA	BP2SA	BP2SA
Wireless LAN	O	O	O	O
Memory Card Adapter	X	X	X	X
USB FLOPPY DISK DRIVE	X	X	X	X
OS	XP Home	XP Pro	XP Pro	XP Home

- The model that is accompanied by asterisk(*) is the CTO model.
For the equipment configuration, refer to the CTO Information.
- The trademarks or registered trademarks of above ,refer to page2.

1-2.CTO Information

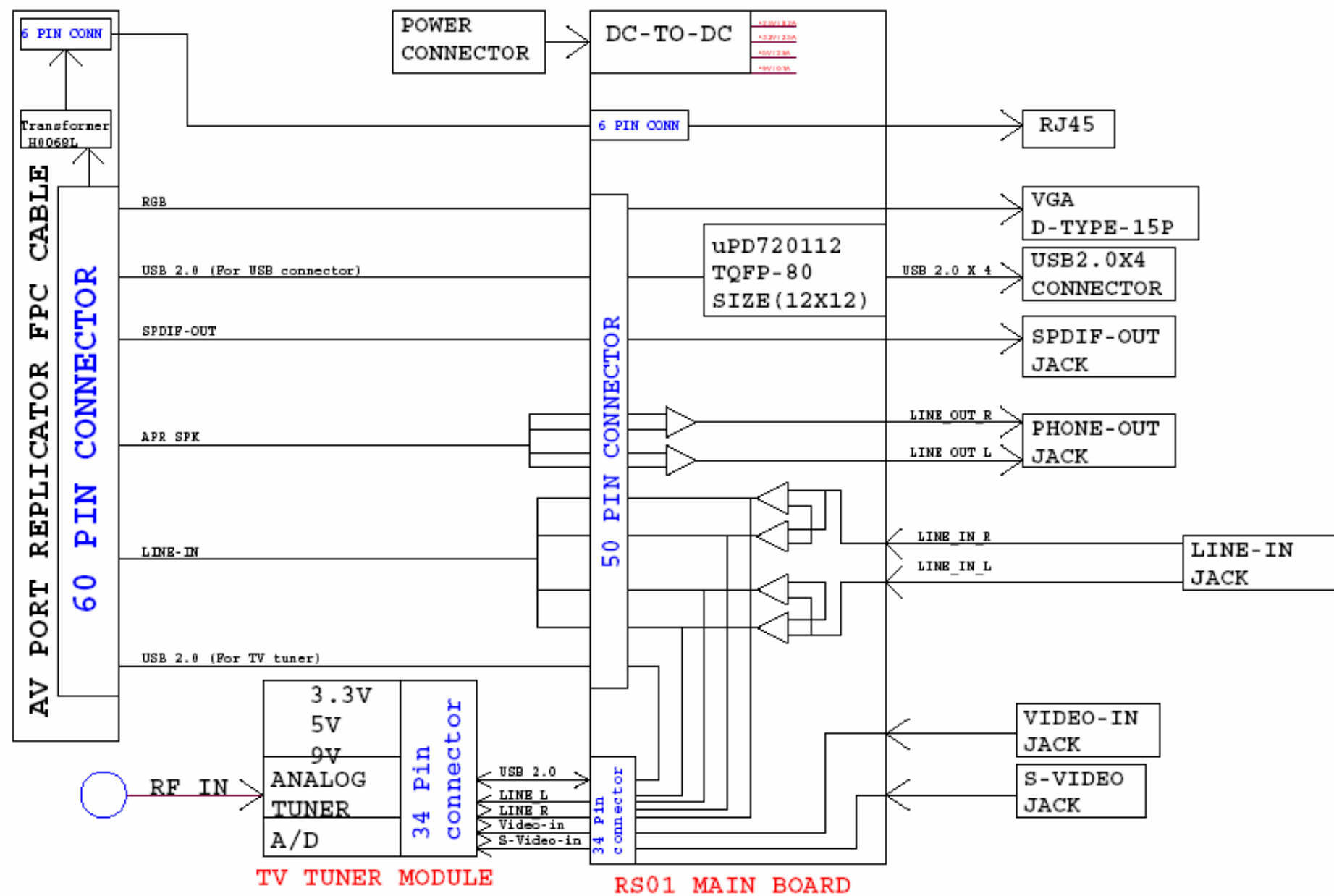
Model name:VGN-FS8900P
Model number:PCG-7G1L (802.11a/b/g), PCG-7G2L(802.11b/g)
OS:WinXP Pro

CPU	Pentium-M 780 6-708-173-01 CPU PM 2.26	Pentium-M 770 6-707-261-01 CPU PM 2.13	Pentium-M 760 6-707-260-01 CPU PM 2.0	Pentium-M 750 6-707-259-01 CPU PM 1.86	Pentium-M 740 6-707-258-01 CPU PM 1.73	Celeron-M 370J 6-708-558-01 CPU CEL-M 1.5
HDD	120GB ASSY HDD 120GB	160GB ASSY HDD 160GB	80GB ASSY HDD 80GB	60GB ASSY HDD 60GB	40GB ASSY HDD 40GB	Note: Refer to "H-1.HDD" for part numbers.
LCD	15.4WXGA/ClearBlack A-1133-651-A ASSY LCD (HC-XGA-WLAN)(S)(W)					
Graphics	NV44M	915GM	910GML			
Memory	1024MB*2	1024MB*1	512MB*2	512MB*1	256MB*2	256MB*1 Note: Refer to "M-1.Main Board" for part num
Opt.Drive	Combo A-1127-956-A ASSY ODD QSI(SBW 243)(W)	DVD-ROM A-1127-958-A ASSY ODD Toshiba(C2732)(W)	DVD+-RW DL A-1152-205-A ASSY ODD Pioneer(W)	DVD+-RW DL A-1152-207-A ASSY ODD PANA(W)	DVD+-RW DL A-1152-208-A ASSY ODD SONY(W)	
W-LAN	802.11 b/g(Intel) 1-761-864-51 WIRELESS LAN CARD	802.11 a/b/g(Intel) 1-789-095-51 WIRELESS LAN CARD	None			
Office	2003 Professional	None				
CHASSIS COLOR	White					

Model name:VGN-FS8900
Model number:PCG-7G1L (802.11a/b/g), PCG-7G2L(802.11b/g)
OS:WinXP Home

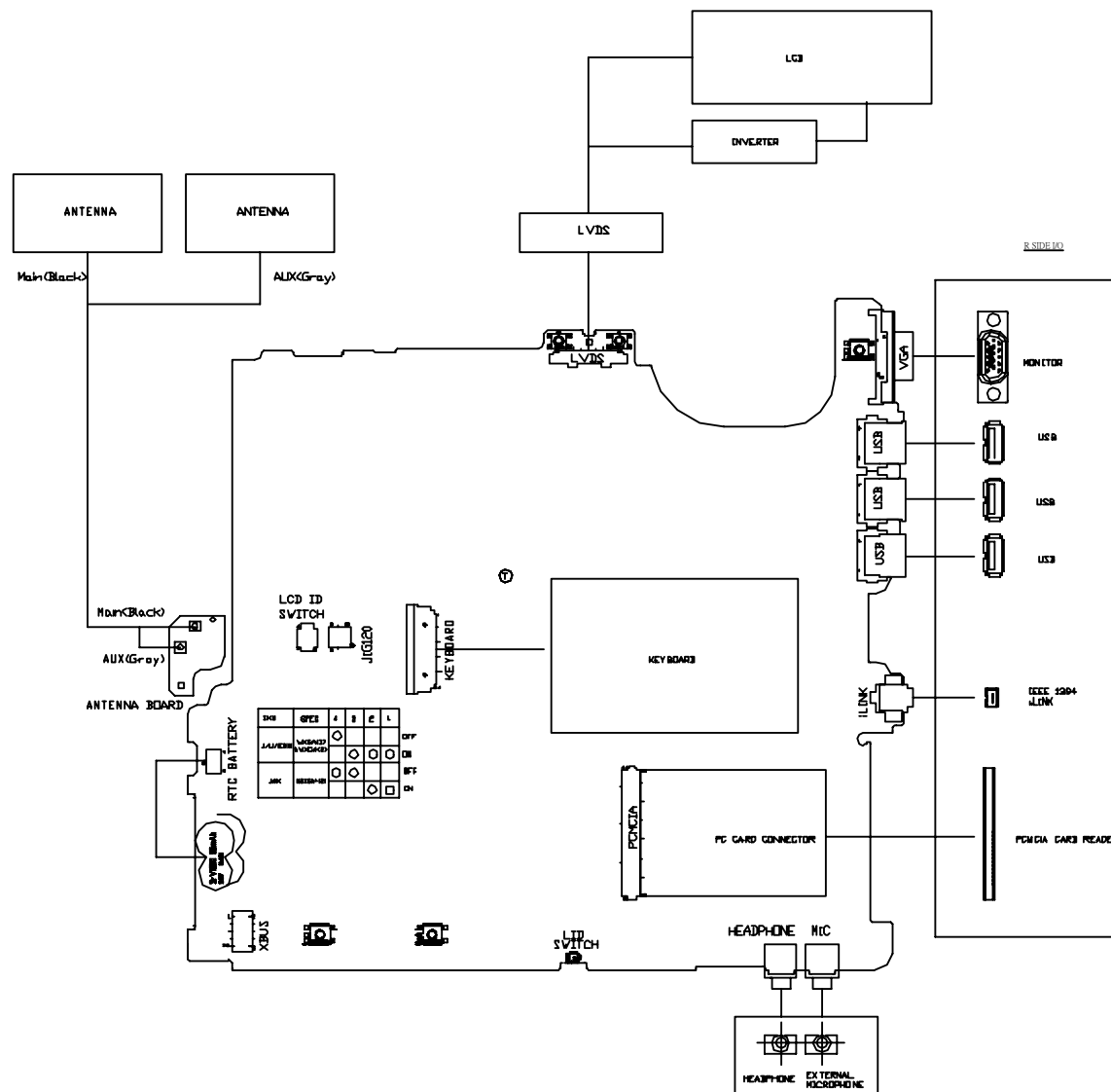
CPU	Pentium-M 780 6-708-173-01 CPU PM 2.26	Pentium-M 770 6-707-261-01 CPU PM 2.13	Pentium-M 760 6-707-260-01 CPU PM 2.0	Pentium-M 750 6-707-259-01 CPU PM 1.86	Pentium-M 740 6-707-258-01 CPU PM 1.73	Celeron-M 370J 6-708-558-01 CPU CEL-M 1.5
HDD	120GB ASSY HDD 120GB	160GB ASSY HDD 160GB	80GB ASSY HDD 80GB	60GB ASSY HDD 60GB	40GB ASSY HDD 40GB	Note: Refer to "H-1.HDD" for part numbers.
LCD	15.4WXGA/ClearBlack A-1133-651-A ASSY LCD (HC-XGA-WLAN)(S)(W)					
Graphics	NV44M	915GM	910GML			
Memory	1024MB*2	1024MB*1	512MB*2	512MB*1	256MB*2	256MB*1 Note: Refer to "M-1.Main Board" for part num
Opt.Drive	Combo A-1127-956-A ASSY ODD QSI(SBW 243)(W)	DVD-ROM A-1127-958-A ASSY ODD Toshiba(C2732)(W)	DVD+-RW DL A-1152-205-A ASSY ODD Pioneer(W)	DVD+-RW DL A-1152-207-A ASSY ODD PANA(W)	DVD+-RW DL A-1152-208-A ASSY ODD SONY(W)	
W-LAN	802.11 b/g(Intel) 1-761-864-51 WIRELESS LAN CARD	802.11 a/b/g(Intel) 1-789-095-51 WIRELESS LAN CARD	None			
Office	2003 Personal	None				
CHASSIS COLOR	White					

2-2. Port Replicator (VGP-PRFS10V)

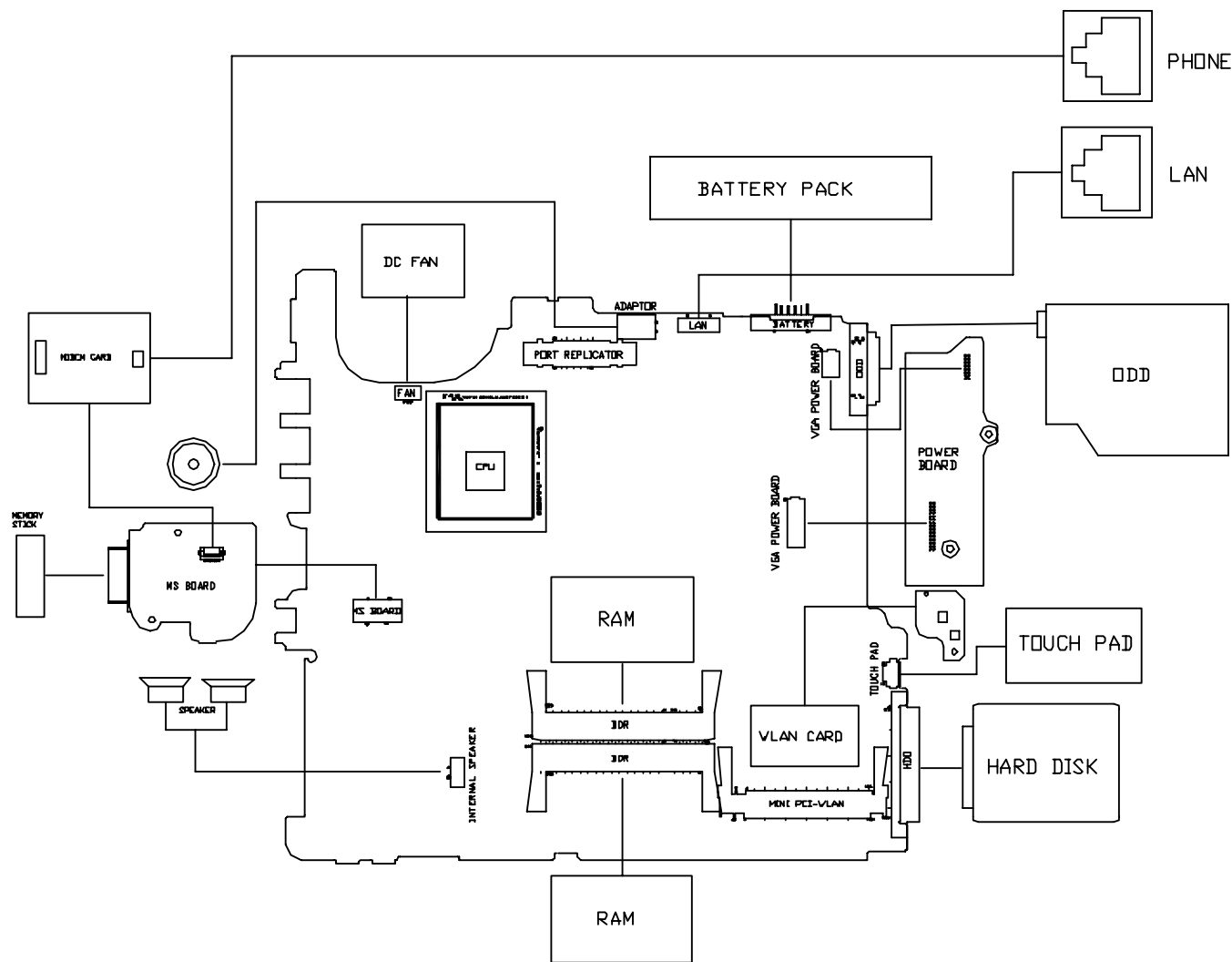


CHAPTER3. FRAME HARNESS DIAGRAM

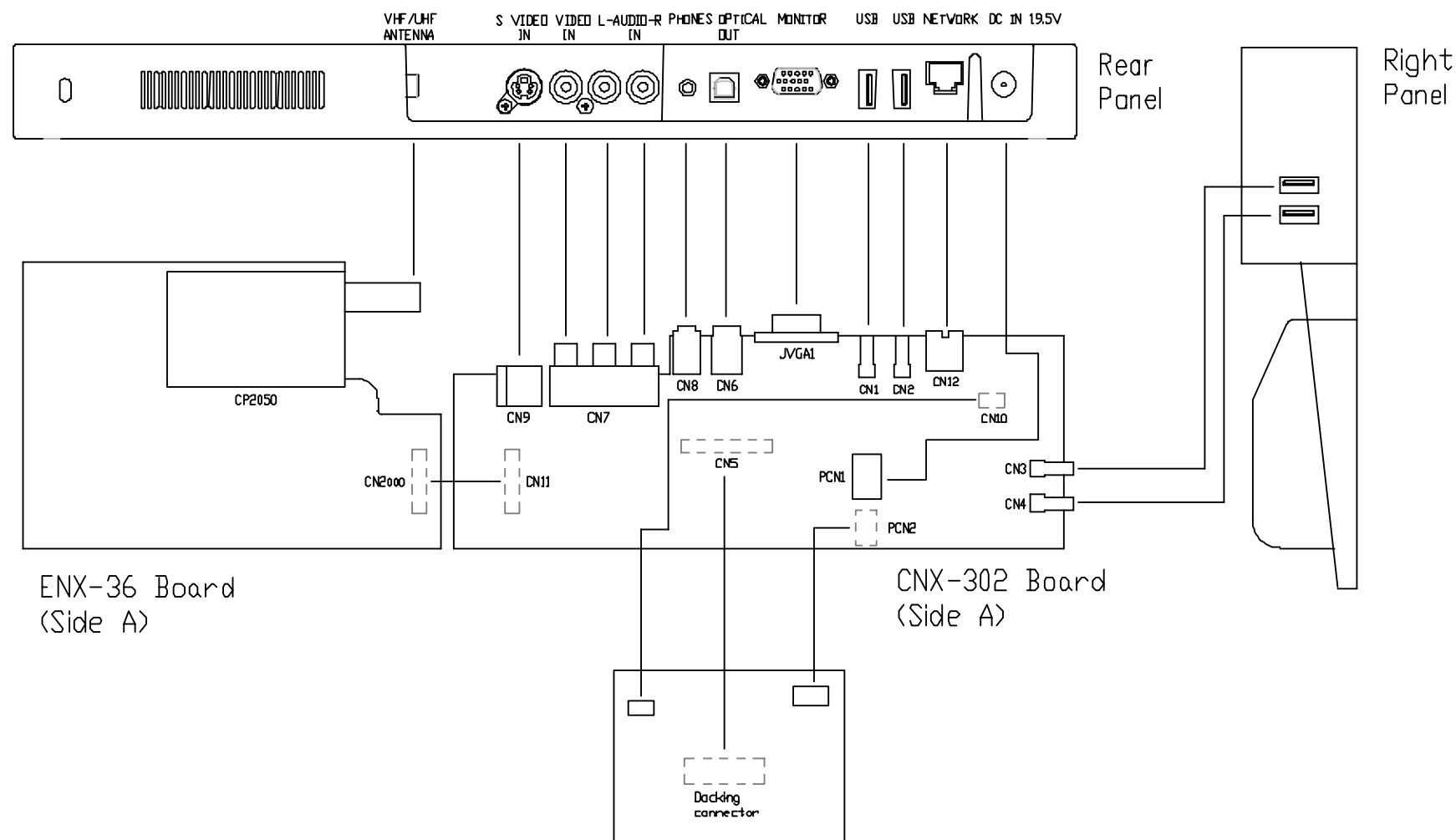
3-1 VGN-FS Series (TOP)



3-1 VGN-FS Series (BOTTOM)



3-2 Port Replicator (VGP-PRFS10V)



CHAPTER 4

EXPLODED VIEWS AND PARTS LIST

· The parts id compiled by blocks of a Palmrest and bottom etc.
The sections of the parts list are different depending on the model.
Please refer to list of contents shown in the below.

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ODD

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HDD

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SUBSTITUTION PARTS LIST

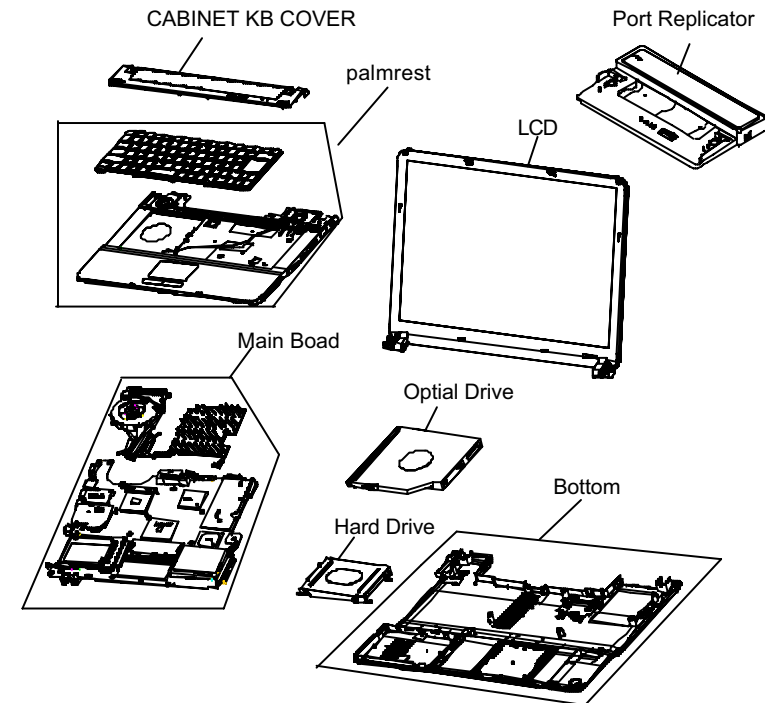
T-1.SUBSTITUTION PARTS LIST..... 4-18

DIP Switch..... 4-20

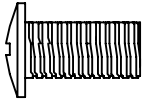
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- When two or more parts are shown, use the part described first as the main part.
- The parts marked "&" are the "Customer Replacable Parts(CRP)" that can be replaced by Filed Customer Support. Especially the parts with the <&> mark require the special attention to use them. Here fore, check first whether the desired part is one of the targetted parts of the Customer Replacable Parts(CRP), or the non-targetted parts by referring to the exploded view.

The components identified by mark 
or dotted line with mark  are critical for safely.
Replace only with part number specified.



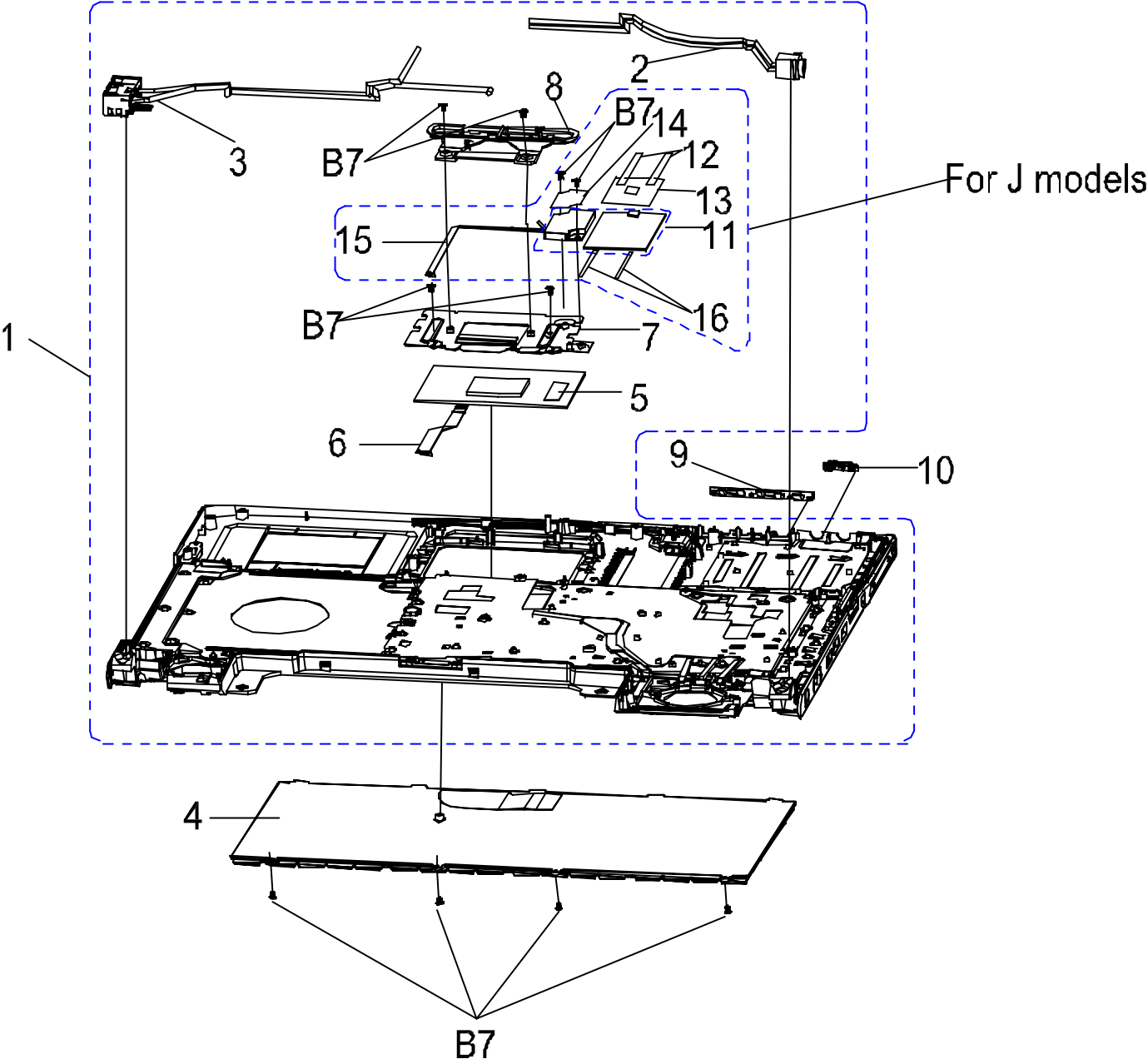
S-1. SCREWS

B1	B2	B3	B4	B5	B6	B7
						
M3*6	M2*1.6	M2*7	M2*5	M3*3	M2*2	M2*3
Black	Black	Black	Silver	Silver	Silver	Black

<u>Ref.No.</u>	<u>Part No</u>	<u>Description</u>
B1	4-654-811-01	SCREW M3
B2	2-582-816-01	APPEARANCE SCREW M2
B3	2-590-600-01	SCREW (M2), EXTERIOR VIEW
B4	4-645-214-61	GRIP, M2
B5	4-673-018-02	SCREW, SPECIAL HEAD
B6	4-671-538-01	SCREW, SPECIAL HEAD
B7	4-672-836-01	SCREW, M2 SPECIAL HEAD, EG GRIP

P-1. Palmrest

P-1



P-1. Palmrest

P-1

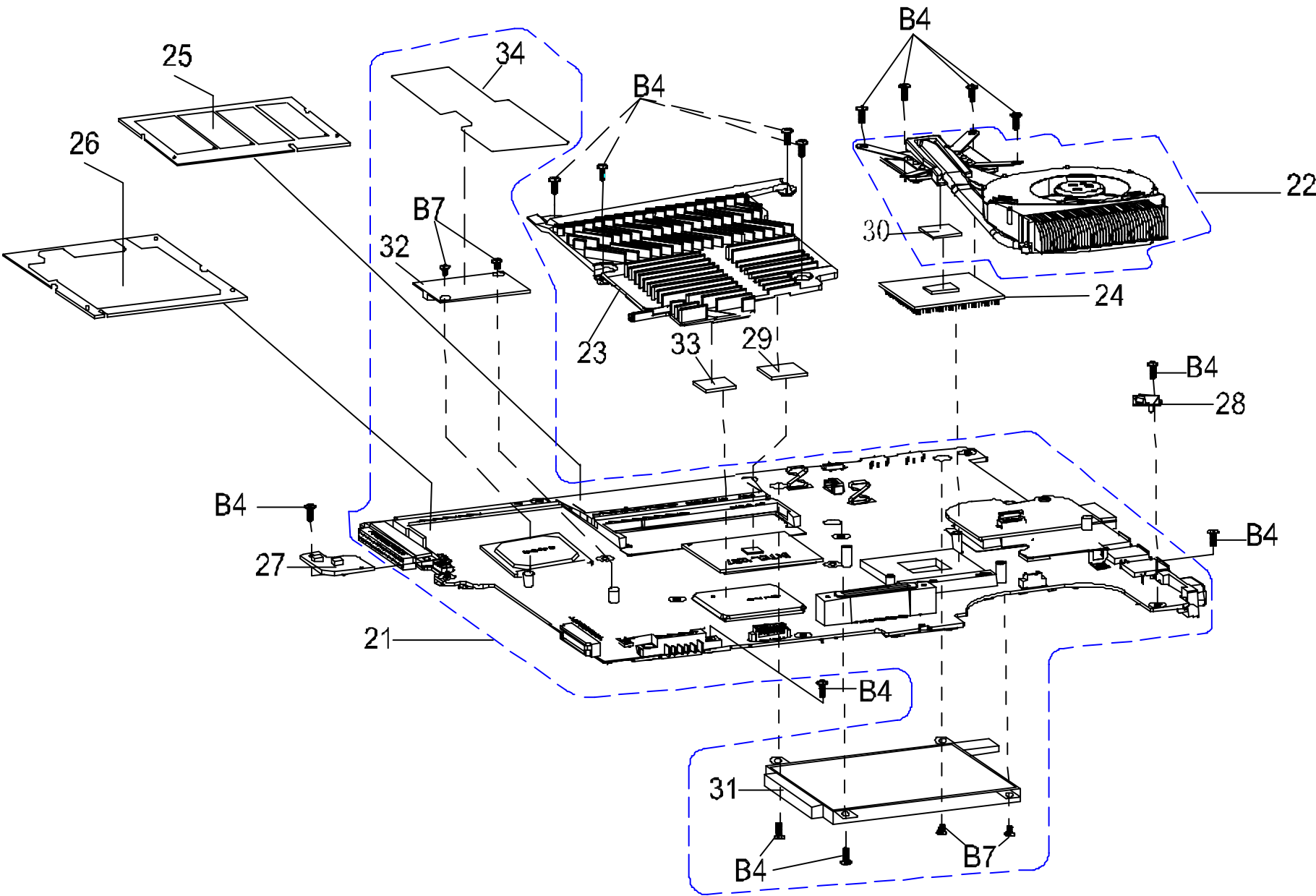
Ref.No.	Part No.	Description
2	1-963-519-11	MS01 CABLE DC IN
6	1-830-442-31	MS03 TOUCHPAD FFC
7	X-2067-819-1	MS03 SUBASSY TOUCHPAD BRACKET
8	2-582-765-01	MS01 TOUCHPAD BUTTON FIN
10	2-546-281-11	MS04 WLAN BUTTON
B7	4-672-836-01	SCREW, M2 SPECIAL HEAD, EG GRIP

* :CTO Model

Ref.No.	Part No.	Description	J			AM										EU					AO							
			FS53B	FS33B	FS23B	FS850P	FS850	FS840	FS830	FS810	FS875P	FS815F	FS810FP	FS812F	FS850Q	FS830Q	FS8900P*	FS8900*	FS495VP	FS415M	FS415E	FS415MR	FS415S	FS415B	FS48C	FS48GP	FS48SP	FS48L
1	A-1139-738-A	MS03 ASSY CABINET PALMREST(W)	•	•	•																							
	A-1142-729-A	MS03 ASSY CABINET PALMREST(W)				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	A-1142-742-A	MS03 ASSY CABINET PALMREST(G)																										
3	1-963-520-41	MS03 CABLE RJ COMBO (W)	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	1-963-520-51	MS03 CABLE RJ COMBO (G)									•		•						•									
4	1-479-153-11	KEYBOARD UNIT (JP)	•	•	•																							
	1-479-153-21	KEYBOARD UNIT (US)				•	•	•	•	•															•	•		
	1-479-153-31	KEYBOARD UNIT (KR)																									•	
	1-479-153-41	KEYBOARD UNIT (TH)																								•		
	1-479-153-61	KEYBOARD UNIT (RU)																										
	1-479-153-71	KEYBOARD UNIT (CA)												•	•													
	1-479-153-81	KEYBOARD UNIT (BE)																	•	•				•				
	1-479-154-11	KEYBOARD UNIT (GB)																		•	•		•	•				
	1-479-154-21	KEYBOARD UNIT (DE)																					•					
	1-479-154-31	KEYBOARD UNIT (CH)																		•	•							
	1-479-154-41	KEYBOARD UNIT (FR)																		•	•		•					
	1-479-154-51	KEYBOARD UNIT (IT)																			•		•					
	1-479-154-61	KEYBOARD UNIT (LA)										•		•														
	1-479-154-71	KEYBOARD UNIT (ES)																			•		•	•				
	1-479-154-91	KEYBOARD UNIT (PT)																		•								
	1-479-375-21	KEYBOARD UNIT (US)(G)									•									•								
	1-479-375-31	KEYBOARD UNIT (PA)(G)											•															
	1-479-376-11	KEYBOARD UNIT (NL)(G)																										
	1-479-376-71	KEYBOARD UNIT (SE)(G)																		•								
5	1-796-464-21	TOUCHPAD(W)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	1-796-464-11	TOUCHPAD (G)										•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
9	2-546-282-02	MS01 PALMREST LENS (W)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	2-546-282-21	MS01 PALMREST LENS (G)									•	•				•	•	•										
11	A-1128-636-A	MS03 OIDE MODULE	•	•	•																							
12	2-650-568-01	MS03 OIDE ANTENNA ADHENSIVE	•	•	•																							
13	2-650-572-01	MS03 OIDE ANTENNA BUSTERRAID	•	•	•																							
14	2-650-578-01	MS03 OIDE MYLAR	•	•	•																							
15	1-964-366-21	MS03 OIDE FFC	•	•	•																							
16	2-658-473-01	MS03 OIDE SPONGE 42x8x5	•	•	•																							

M-1. Main Board

M-1



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M-1. Main Board

M-1

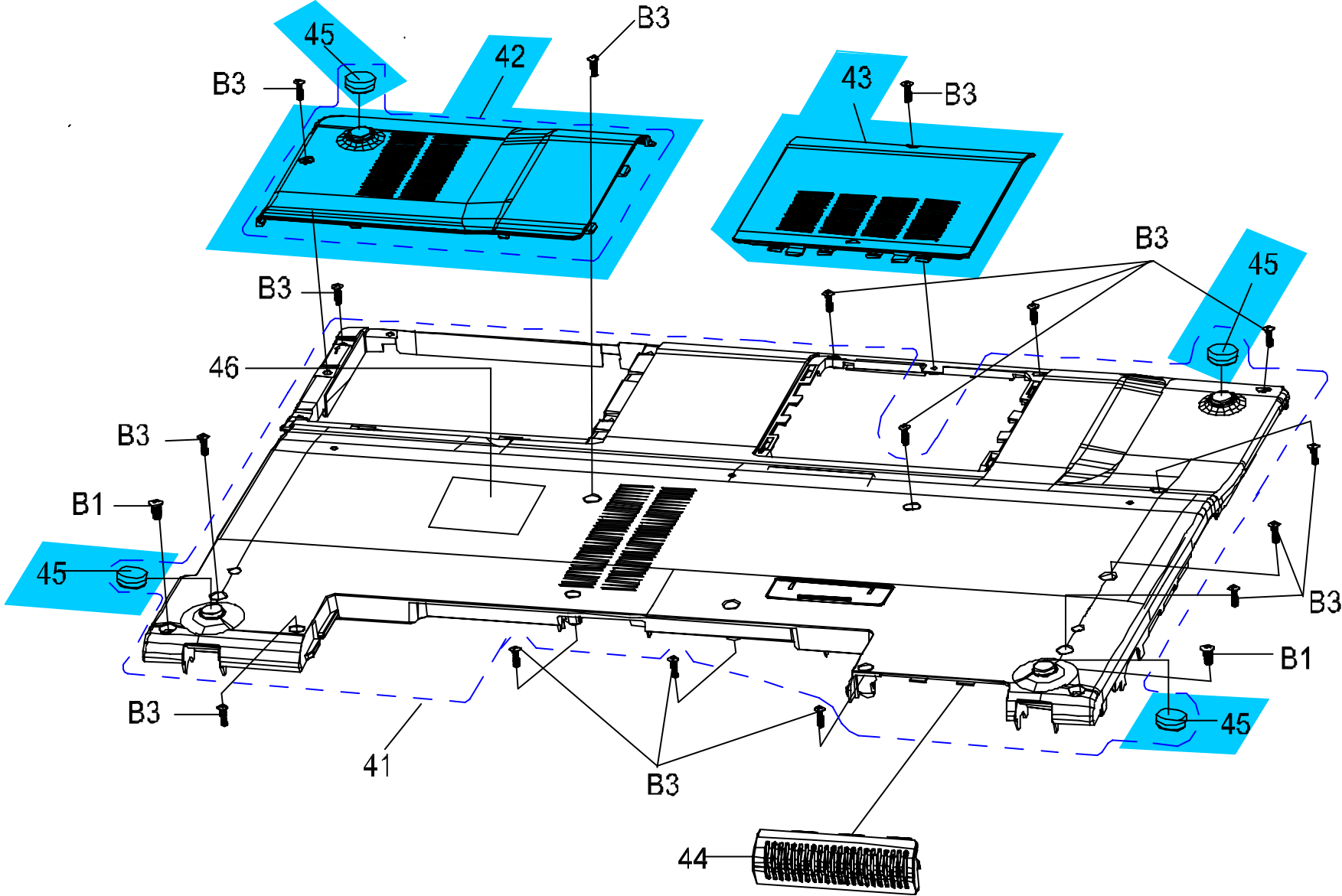
Ref.No.	Part No.	Description
22	A-1093-218-A	MS01 ASSY THERMAL
23	A-1139-737-A	MS03 THERMAL VGA
27	A-1117-455-A	MS02 PWA ANTENNA
28	2-546-280-01	MS01 DC IN BRACKET
29	2-592-555-01	MS01 NORTHBRIDGE THERMAL PAD
30	2-592-554-01	THERMAL SHEET
32	1-417-539-12	MDC MODULE
34	2-672-581-01	MS03 SHELTER INLET MB
B4	4-645-214-61	GRIP, M2
B7	4-672-836-01	SCREW, M2 SPECIAL HEAD, EG GRIP

* : CTO Model

Ref.No.	Part No.	Description	J		AM												EU					AO						
			FS53B	FS33B	FS23B	FS850P	FS850	FS840	FS830	FS810	FS875P	FS815F	FS810FP	FS812F	FS850Q	FS830Q	FS8900P*	FS8900*	FS495VP	FS415M	FS415E	FS415MR	FS415S	FS415B	FS48C	FS48GP	FS48SP	FS48L
21	A-1168-276-A	MS04 PWA ALL (FOR HIGH)(W)																										
	A-1168-184-A	MS04 PWA ALL (FOR HIGH)(G)								•								•										
	A-1168-156-A	MS04 PWA ALL (FOR MIDDLE)(W)	•	•		•	•	•	•					•	•	•	•						•					
	A-1168-158-A	MS04 PWA ALL (FOR LOW)(W)			•					•		•				•	•			•								
	A-1167-120-A	MS04 PWA ALL (FOR LOW)(G)											•															
24	6-708-173-01	CPU PM2.26														•	•											
	6-707-261-01	CPU PM2.13															•	•										
	6-707-260-01	CPU PM2.0								•						•	•											
	6-707-259-01	CPU PM1.86	•			•	•							•		•	•											
	6-707-258-01	CPU PM 1.73		•				•	•							•	•	•	•		•	•	•	•	•	•	•	•
	6-709-171-01	CPU CEL-M1.7																		•								
	6-708-172-01	CPU CEL-M1.6										•	•	•														
	6-708-558-01	CPU CEL-M1.5			•					•						•	•											
25	6-708-155-01	RAM Infineon 512 MB				•	•	•	•	•	•					•	•											
	6-708-619-01	RAM Elpida 512 MB														•	•	•	•	•	•	•	•					
	6-708-614-01	RAM Infineon 256MB										•	•	•										•				
	6-708-689-01	RAM Micron 256MB														•	•											
	6-709-228-01	RAM Hynix 256MB														•	•											
	6-709-227-01	RAM Hynix 512MB	•	•	•										•	•	•	•								•	•	•
	6-708-154-01	RAM Infineon 1024MB															•	•										
26	1-789-095-82	WIRELESS LAN CARD (a/b/g FOR JP)(Intel)	•																									
	1-789-014-23	WIRELESS LAN CARD (b/g FOR JP)(Ambit)			•																							
	1-761-864-64	WIRELESS LAN CARD (b/g FOR JP)(Intel)		•																								
	1-761-864-51	WIRELESS LAN CARD (b/g FOR US/LA/CA/Taiwan)(Intel)				•	•	•	•		•				•	•	•	•										
	1-789-014-11	WIRELESS LAN CARD (b/g FOR US/LA/CA/Taiwan)(Ambit)								•		•	•	•						•	•	•	•	•	•	•	•	•
	1-761-864-71	WIRELESS LAN CARD (b/g FOR EU/GVD/CH)(Intel)																	•	•		•	•	•	•	•	•	•
	1-789-014-32	WIRELESS LAN CARD (b/g FOR EU/GVD/CH)(Ambit)																		•								
	1-789-095-51	WIRELESS LAN CARD (a/b/g FOR US)(Intel)															•	•										
31	1-819-779-11	PCMCIA SOCKET (W)	•	•	•	•	•	•	•		•		•	•	•	•	•		•	•	•	•	•	•	•	•	•	•
	1-819-779-21	PCMCIA SOCKET (G)								•		•						•										
33	2-658-474-01	VGA/NB THERMAL PAD								•						•	•	•	•		•	•		•	•	•	•	•

B-1.Bottom

B-1



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B-1. Bottom

B-1

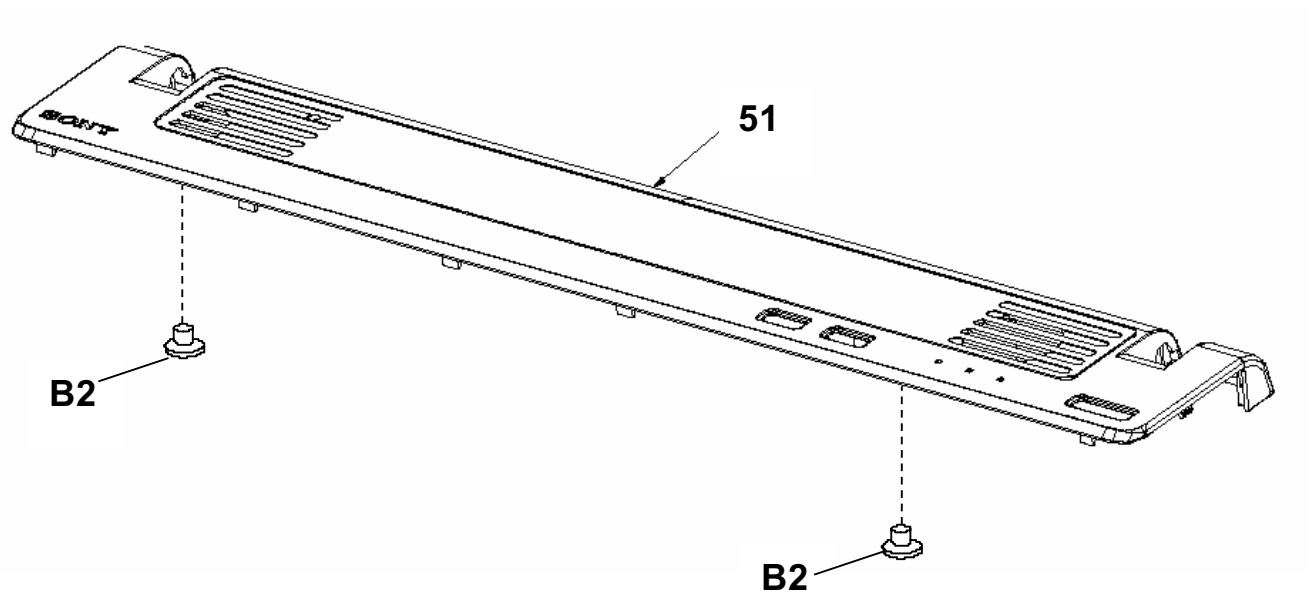
Ref.No.	Part No.	Description
41	X-2067-818-1	MS03 ASSY CABINET BOTTOM
42	X-2050-587-2	& MS02 ASSY HDD DOOR
43	X-2050-582-2	& MS01 ASSY RAM DOOR
44	2-546-276-01	MS01 COVER THERMAL OUTLET
45	2-546-274-02	& MS01 RUBBER FOOT
B1	4-654-811-01	SCREW M3
B3	2-590-600-01	SCREW (M2), EXTERIOR VIEW

*: CTO Model

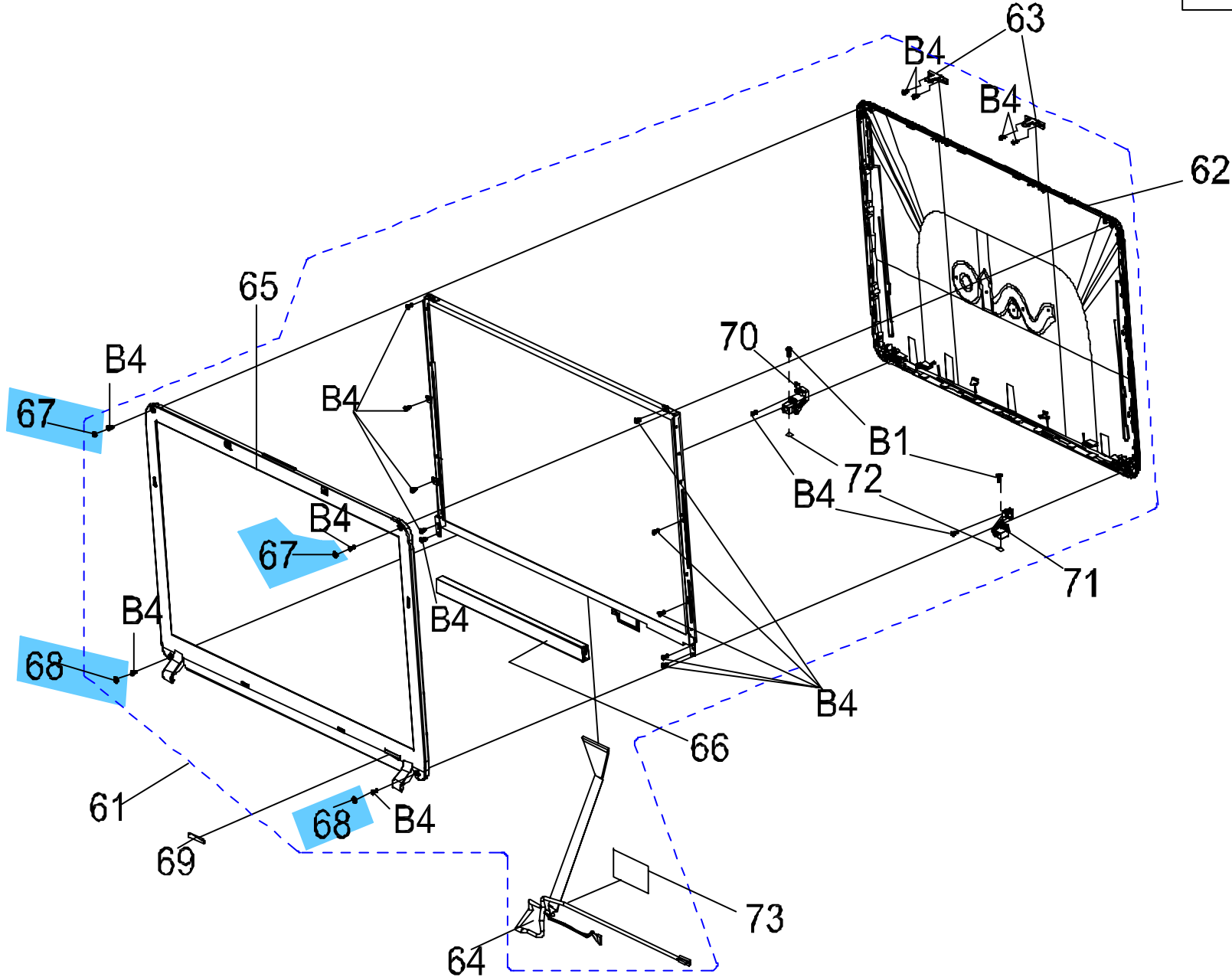
			J			AM										EU					AO							
Ref.No.	Part No.	Description	FS53B	FS33B	FS23B	FS850P	FS850	FS840	FS830	FS810	FS875P	FS815F	FS810FP	FS812F	FS850Q	FS830Q	FS8900P*	FS8900*	FS495VP	FS415M	FS415E	FS415MR	FS415S	FS415B	FS48C	FS48GP	FS48SP	FS48L
46	2-670-549-01	LABEL, MODEL NUMBER (J)	●																									
	2-670-549-11	LABEL, MODEL NUMBER (J)		●	●																							
	2-670-546-01	LABEL, MODEL NUMBER (U)				●	●		●	●	●				●	●												
	2-670-550-01	LABEL, MODEL NUMBER (LA)										●																
	2-670-550-11	LABEL, MODEL NUMBER (LA)											●															
	2-670-550-21	LABEL, MODEL NUMBER (LA)													●													
	2-674-902-01	LABEL, MODEL NUMBER (UCTO) (WLAN a/b/g)															●	●										
	2-674-902-11	LABEL, MODEL NUMBER (UCTO) (WLAN b/g)																●	●									
	2-670-548-01	LABEL, MODEL NUMBER (E)																	●	●	●		●	●				
	2-670-551-01	LABEL, MODEL NUMBER (E)																				●						
	2-670-552-01	LABEL, MODEL NUMBER (C)																							●			
	2-670-553-01	LABEL, MODEL NUMBER (I)																								●		
	2-670-554-01	LABEL, MODEL NUMBER (TH)																									●	
	2-670-555-01	LABEL, MODEL NUMBER (K)																										

C-1. CABINET KBCOVER

C-1



<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>
51	X-2102-593-1	MS02 ASSY CABINET KBCOVER
B2	2-582-816-01	APPEARANCE SCREW M2



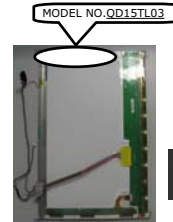
L-1.LCD

Ref.No.	Part No.	Description
63	2-546-200-01	MS01 LCD HOOK
65	X-2050-578-1	MS01 SUBASSY LCD BEZEL
67	2-546-209-01	& MS01 LCD RUBBER ROUND
68	2-587-393-01	& MS01 LCD RUBBER ROUND DOWN
70	2-546-203-01	MS01 HINGE LEFT
71	2-546-204-01	MS01 HINGE RIGHT
72	2-658-471-01	MS01 HINGE RUBBER
73	2-658-470-01	MS01 LCD AL FOIL 15*40*0.15
B1	4-654-811-01	SCREW, M3
B4	4-645-214-61	GRIP, M2 M2 5mm Silver

[Notice for replacing LCD from CPT type to QDI type]
When replacing LCD from CPT to QDI, the DIP switch setting must be changed from CPT to QDI.



Type CPT (rear view)



Type QDI (rear view)

* : CTO Model

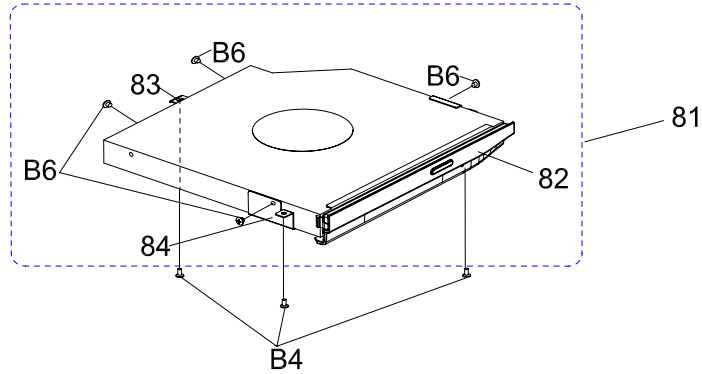
Ref.No.	Part No.	Description	J			AM										EU					AO								
			FS53B	FS33B	FS23B	FS850P	FS850	FS840	FS830	FS810	FS875P	FS815F	FS810FP	FS812F	FS850Q	FS830Q	FS8900P*	FS8900*	FS495VP	FS415M	FS415E	FS415MR	FS415S	FS415B	FS48C	FS48GP	FS48SP	FS48L	
61	A-1133-651-A	MS02 ASSY LCD (HC-WXGA-WLAN)(W)	•	•	•	•	•	•																					
	A-1127-879-A	MS02 ASSY LCD (HC-WXGA-WLAN)(G)								•		•						•											
	A-1133-649-A	MS02 ASSY LCD (WXGA 1 lamp)(W) (QDI)														•									•	•	•	•	
	A-1179-852-A	MS04 ASSY LCD (WXGA-1 LAMP)(W) (CPT)							•	•						•													
62	X-2048-459-1	MS01 ASSY LCD HOUSING (W)	•	•	•	•	•	•	•		•			•	•	•	•			•	•	•	•	•	•	•	•	•	
	A-1128-260-A	MS01 ASSY LCD HOUSING (G)								•		•						•		•		•	•	•					
64	1-963-755-31	MS03 LCD CABLE for 1 LAMP LCD							•	•					•											•	•	•	
	1-963-756-31	MS03 LCD CABLE for 2 LAMPS LCD	•	•	•	•	•	•			•	•	•	•	•		•	•	•	•	•	•	•	•					
66	1-478-805-31	INVERTER NEC-TOKIN FOR 1 LAMP LCD							•	•						•										•	•	•	
	1-479-137-13	INVERTER NEC-TOKIN FOR 2 LAMPS LCD	•	•	•	•	•	•			•	•	•	•	•		•	•	•	•	•	•	•	•		•	•	•	
69	2-671-508-01	LABEL ID(J)	•																										
	2-671-508-11	LABEL ID(J)		•																									
	2-671-508-21	LABEL ID(J)			•																								
	2-671-511-01	LABEL ID(U)				•																							
	2-671-511-11	LABEL ID(U)					•																						
	2-671-511-21	LABEL ID(U)						•																					
	2-671-511-31	LABEL ID(U)							•																				
	2-671-511-41	LABEL ID(U)								•																			
	2-671-511-51	LABEL ID(U)									•																		
	2-671-511-61	LABEL ID(U)												•															
	2-671-511-71	LABEL ID(U)													•														
	2-674-901-01	LABEL ID (UCTO)															•												
	2-674-901-11	LABEL ID (UCTO)																•											
	2-671-512-01	LABEL ID (LA)									•																		
	2-671-512-11	LABEL ID (LA)										•																	
	2-671-512-21	LABEL ID (LA)											•																
	2-671-513-01	LABEL ID(E)																•											
	2-671-513-11	LABEL ID(E)																	•										
	2-671-513-21	LABEL ID(E)																		•									
	2-671-513-31	LABEL ID(E)																			•								
	2-671-513-41	LABEL ID(E)																				•							
	2-671-513-51	LABEL ID(E)																					•						
	2-671-514-01	LABEL ID (C)																						•					
	2-671-515-01	LABEL ID (I)																							•				
	2-671-515-11	LABEL ID (I)																								•			
	2-671-515-21	LABEL ID (I)																									•		

L-1

D-1.ODD

D-1

Ref.No.	Part No.	Description
83	2-546-291-01	MS02 ODD BRACKET BACK
84	2-546-292-01	MS02 ODD BRACKET FRONT
B4	4-645-214-61	GRIP, M2
B6	4-671-538-01	SCREW, SPECIAL HEAD

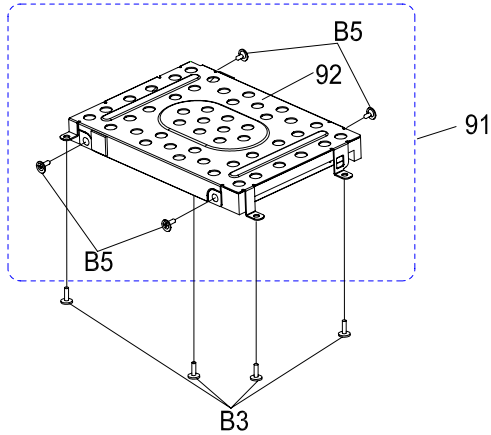


*: CTO Model

			J			AM										EU					AO								
Ref.No.	Part No.	Description	FS53B	FS33B	FS23B	FS850P	FS850	FS840	FS830	FS810	FS875P	FS815F	FS810FP	FS812F	FS850Q	FS830Q	FS8900P*	FS8900*	FS495VP	FS415M	FS415E	FS415MR	FS415S	FS415B	FS48C	FS48GP	FS48SP	FS48L	
81	A-1127-956-A	MS02 ASSY ODD QSI Combo (SBW 243)(W)												•			•	•								•			
	A-1127-957-A	MS02 ASSY ODD QSI Combo (SBW 243)(G)																											
	A-1152-205-A	MS04 ASSY ODD Pioneer DVD +/-RW DL(W)				•	•	•	•	•		•			•	•	•	•		•	•	•	•	•		•	•		
	A-1152-206-A	MS04 ASSY ODD Pioneer DVD +/-RW DL(G)									•								•										
	A-1178-760-A	MS04 ASSY ODD PANA DVD +/-RW DL(W)															•	•		•	•	•	•	•		•	•	•	
	A-1178-761-A	MS04 ASSY ODD PANA DVD +/-RW DL(G)																	•							•	•	•	
	A-1152-208-A	MS03 ASSY ODD SONY DVD +/-RW DL (W)							•	•								•	•										
	A-1178-762-A	MS04 ASSY ODD PANA DVD +/-RW DL(W)																•	•										
	A-1152-210-A	MS04 ASSY ODD Pioneer HMDL(W)	•	•	•																								
82	A-1156-463-A	MS04 ASSY ODD PANA HMDL (W)	•	•	•																								
	X-2055-772-1	MS02 SUBASSY ODD BEZEL (W)	•	•	•	•	•	•	•	•		•		•	•	•	•	•		•	•	•	•	•	•	•	•	•	
	X-2055-780-1	MS02 SUBASSY ODD BEZEL (G)									•		•						•										

H-1.HDD

Ref.No.	Part No.	Description
92	A-1092-487-A	MS01 SUBASSY HDD BRACKET
B3	2-590-600-01	SCREW (M2), EXTERIOR VIEW
B5	4-673-018-02	SCREW, SPECIAL HEAD



*: CTO Model

			J			AM										EU					AO							
Ref.No.	Part No.	Description	FS53B	FS33B	FS23B	FS850P	FS850	FS840	FS830	FS810	FS875P	FS815F	FS810FP	FS812F	FS850Q	FS830Q	FS8900P*	FS8900*	FS495VP	FS415M	FS415E	FS415MR	FS415S	FS415B	FS48C	FS48GP	FS48SP	FS48L
91	A-1152-169-A	MS03 ASSY HDD 120GB(FJ)	•														•											
	A-1152-170-A	MS03 ASSY HDD 120GB(HGST)									•						•	•										
	A-1152-171-A	MS03 ASSY HDD 120GB(TO)															•	•										
	A-1152-196-A	MS03 ASSY HDD 100GB(FJ)				•		•							•		•	•										
	A-1152-197-A	MS03 ASSY HDD 100GB(HGST)		•			•										•	•										
	A-1127-961-A	MS02 ASSY HDD 100GB(TO)															•	•	•				•					
	A-1178-764-A	MS04 ASSY HDD 100GB(HGST)															•	•										
	A-1152-198-A	MS03 ASSY HDD 80GB(FJ)										•				•	•	•				•						
	A-1152-199-A	MS03 ASSY HDD 80GB(HGST)									•						•	•		•								
	A-1108-905-A	MS01 ASSY HDD 80GB(TO)			•				•								•	•			•			•				
	A-1177-908-A	MS04 ASSY HDD 80GB(HGST)															•	•										
	A-1152-200-A	MS03 ASSY HDD 60GB(FJ)											•	•			•	•								•	•	•
	A-1108-908-A	MS01 ASSY HDD 60GB(TO)															•	•							•			
	A-1108-910-A	MS01 ASSY HDD 40GB(HGST)															•	•										
	A-1108-909-A	MS01 ASSY HDD 40GB(TO)															•	•										

A-1. ACCESSORIES

2001
Memory Card Adapter



2007
Battery Pack



2031
SPEAKER



2035
RAY-CATCHER



2005
Power Cord



2030
Port Replicator



2032
Adapter, AC (SPEAKER)



2036
REMOTE COMMANDER



2006
AC Adapter



Refer to A -2. Accessories

2034
CORD, POWER (SPEAKER)



2037
RF CORD WITH F TERMINAL



- 1) The Ref. 2030-2037 are included only in the models supplied with the Port Replicator.

A-1

A-1. ACCESSORIES

A-1

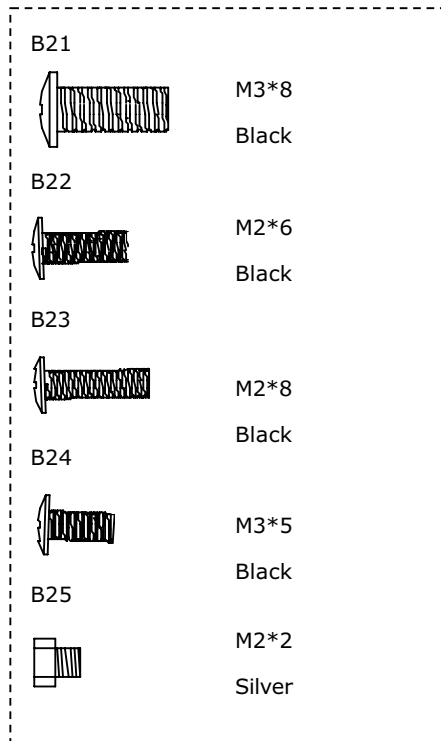
* : CTO Model

			J		AM										EU					AO							
Ref.No.	Part No.	Description	FS53B	FS33B	FS23B	FS850P	FS850	FS840	FS830	FS810	FS875P	FS815F	FS810FP	FS812F	FS850Q	FS830Q	FS8900P*	FS8900*	FS495VP	FS415M	FS415E	FS415MR	FS415S	FS415B	FS48C	FS48GP	FS48SP
2001	1-478-615-11	MEMORY CARD ADAPTER	•	•	•																						
△ 2005	1-827-160-21	& POWER CORD FOR JP (Silvine)	•	•	•																						
	1-829-237-21	& POWER CORD FOR US (also for PORT REPLICATOR)				•	•	•	•	•	•	•	•	•	•	•	•	•									
	1-829-810-31	& POWER CORD FOR US															•	•									
	1-827-481-21	& POWER CORD FOR E(non GB)																	•	•	•		•	•			•
	1-824-910-41	& POWER CORD FOR E (non GB)																								•	
	1-827-946-31	& POWER CORD FOR E(GB)																		•	•		•	•			
	1-830-375-11	& POWER CORD FOR E(RU)																				•					
	1-827-947-21	& POWER CORD FOR C																							•		
	1-827-945-21	& POWER CORD AC CORD (AUS)																								•	
△ 2006	1-823-947-33	& POWER CORD FOR I																									
	1-479-116-12	AC ADAPTER NJRC (90W)															•										
	1-479-114-51	AC ADAPTER VGP-AC19V10 (Delta)										•	•	•			•	•							•	•	•
	1-479-116-31	AC ADAPTER VGP-AC19V11 (NJRC)	•	•	•	•	•	•	•	•	•			•		•	•	•	•	•	•		•	•			
△ 2007	1-479-231-11	AC ADAPTER VGP-AC19V12 (Delta) FOR RU only																				•					
	A-1114-325-A	BATTERY 9139 ASSY MAIN BP FOR JP	•	•	•																						
	A-1114-326-A	BATTERY 9139 ASSY MAIN BP FOR US				•	•	•	•	•	•																
	A-1072-509-B	BATTERY PACK BPL2 (U)(S)															•	•							•	•	•
	1-756-531-51	BATTERY PACK VGP-BPS2A, LITHIUMION FOR EU/AP/CH										•	•	•	•	•	•	•	•		•	•			•	•	•
2009	A-1055-675-A	BATTERY PACK VGP-BPS2, LITHIUMION FOR EU																		•			•	•			
	1-770-019-61	& ADAPTOR, CONVERSION PLUG																								•	
2010	1-816-429-12	& PHONE PLUG (GB only)																		•	•		•	•			
2030	-	PORT REPLICATOR																•	•								
△ 2031	1-478-701-22	& SPEAKER UNIT																•	•								
△ 2032	1-479-364-21	& ADAPTOR, AC (SPEAKER)																•	•								
△ 2034	1-829-237-21	& CORD, POWER (U) (SPEAKER)																•	•								
2035	1-477-218-61	& RAY-CATCHER UNIT (J/U)																•	•								
2036	1-479-183-11	& REMOTE COMMANDER (RM-VC10U)																•	•								
2037	1-829-239-11	& RF CORD WITH F TERMINAL (J/U)																•	•								
-	2-669-975-01	& MANUAL (XP) , INSTRUCTION	•	•	•																						
	2-630-644-11	& MANUAL, INSTRUCTION (U) (PORT REPLICATOR)																•	•								
-	2-668-562-11	& WELCOME MAT, 3550(UC)(C)				•	•	•	•	•	•	•	•	•	•	•											

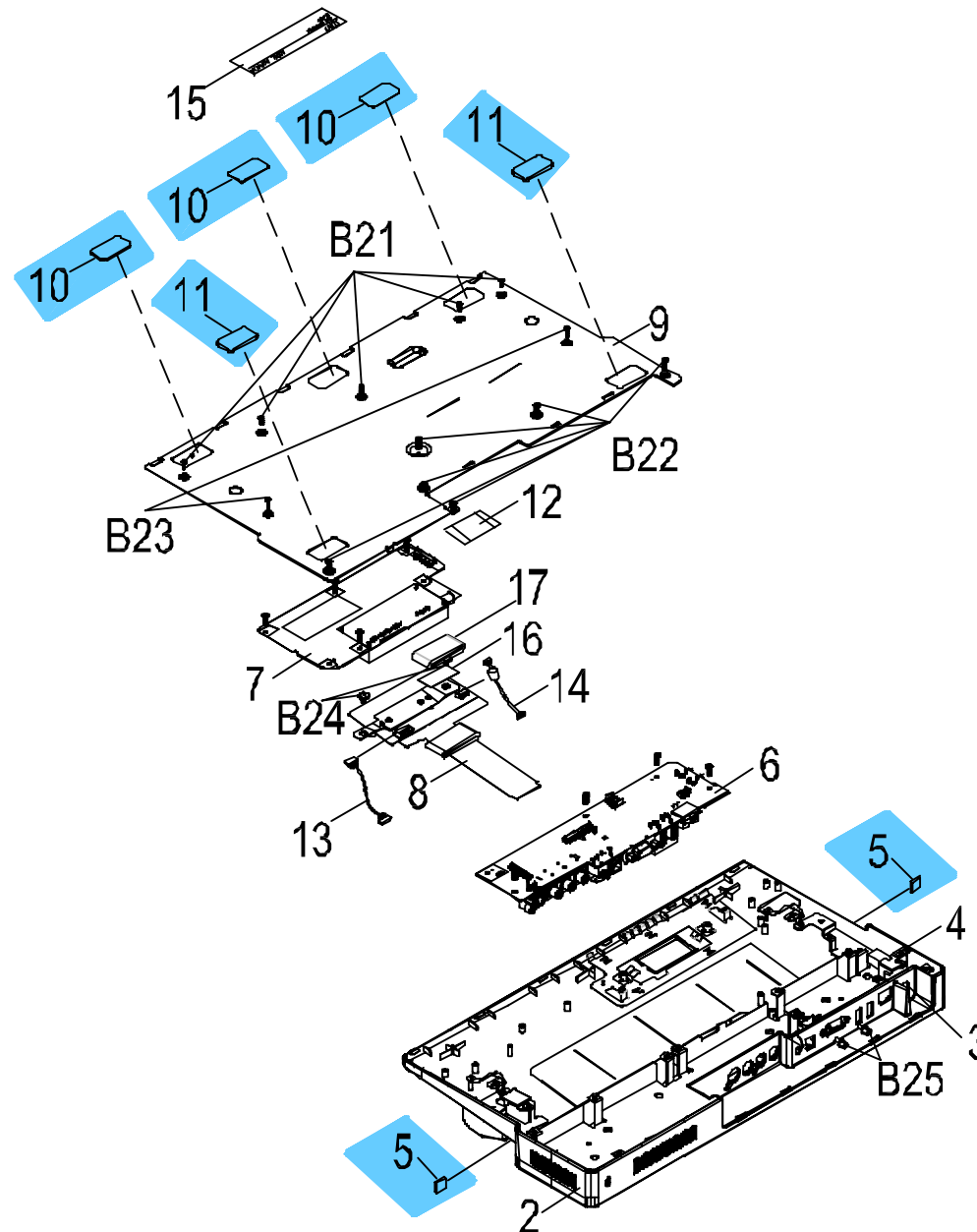
A-2. ACCESSORIES

A-2

B20



Note: Screw are supplied with B20,a whole set



A-2. ACCESSORIES (Port Replicator)

* : CTO Model

			J			AM										EU					AO							
Ref.No.	Part No.	Description	FS53B	FS33B	FS23B	FS850P	FS850	FS840	FS830	FS810	FS875P	FS815F	FS810FP	FS812F	FS850Q	FS830Q	FS8900P*	FS8900*	FS495VP	FS415M	FS415E	FS415MR	FS415S	FS415B	FS48C	FS48GP	FS48SP	FS48L
2	A-1127-780-A	RS01-TOP-ASM (for J/U)															•	•										
3	A-1122-559-A	RS01-CABLE-DC-IN															•	•										
4	2-599-525-01	RS01-HOLDER-DCJACK															•	•										
5	2-637-689-01 &	RUBBER 95*95*13															•	•										
6	A-1122-558-A	RS01-PCB-MAIN (Assy)															•	•										
7	A-1122-564-A	3062_BOARD_TV-TUNER_REF (U)															•	•										
8	A-1122-562-A	RS01-PCB-DOCKING-CONN (Assy)															•	•										
9	A-1127-781-A	RS01-BTM-ASM(Sub-Assy)															•	•										
10	2-546-323-01 &	RS01-RUBBER-FOOT-FRONT															•	•										
11	2-637-688-01 &	RS01 RUBBER 40T (FOOT BACK)															•	•										
12	1-963-853-11	RS01-FPC-MB-TV															•	•										
13	A-1122-560-A	RS01-CABLE-POWER-4P															•	•										
14	A-1122-561-A	RS01-CABLE-RJ45															•	•										
15	2-630-626-01	LABEL, MODEL NUMBER (U)															•	•										
16	2-637-685-01	DOUBLE ADHESIVE 30*15*0.12															•	•										
17	2-637-686-01	EMI CORE 400*180*65															•	•										
B20	A-1127-782-A	RS01 SCREW ASSY (S)															•	•										

T-1. SUBSTITUTION PARTS LIST

T-1

NOTE:

Please order below substitution parts if the parts with the same Ref. No. in page 4-2 to 4-17 are not available.

* : CTO Model

Ref.No.	Part No.	Description	J			AM										EU					AO						
			FS53B	FS33B	FS23B	FS850P	FS850	FS840	FS830	FS810	FS875P	FS815F	FS810FP	FS812F	FS850Q	FS830Q	FS8900P*	FS8900*	FS495VP	FS415M	FS415E	FS415MR	FS415S	FS415B	FS48C	FS48GP	FS48SP
25	6-708-155-01	RAM Infineon 512MB	•	•	•									•	•			•	•	•	•	•	•		•	•	
	6-708-619-01	RAM Elpida 512MB	•	•	•	•	•	•	•	•				•	•			•	•	•	•	•	•		•	•	
	6-709-227-01	RAM Hynix 512MB				•	•	•	•	•								•	•	•	•	•	•				
	6-707-351-01	RAM Hynix 512MB	•	•	•	•	•	•	•	•				•	•			•	•	•	•	•	•		•	•	
	6-708-689-01	RAM Micron 256MB										•	•	•										•			
	6-709-228-01	RAM Hynix 256MB									•	•	•											•			
26	1-789-014-22	WIRELESS LAN CARD (b/g FOR JP)(Ambit)			•																						
	1-761-864-62	WIRELESS LAN CARD (b/g FOR JP)(Intel)		•																							
	1-789-014-31	WIRELESS LAN CARD (b/g FOR EU/GVD/CH)(Ambit)																		•							
61	A-1133-649-A	MS02 ASSY LCD (WXGA 1 lamp) (W) (QDI)							•	•					•												
	A-1179-852-A	MS04 ASSY LCD (WXGA 1 lamp) (W) (CPT)																							•	•	
64	1-963-755-22	MS02 LCD CABLE (single)							•	•					•										•	•	•
	1-963-756-22	MS02 LCD CABLE (dual)	•	•	•	•	•	•		•	•	•	•	•		•	•	•	•	•	•	•	•				
66	1-479-976-11	INVERTER MURATA For 1 LAMP LCD							•	•					•					•	•	•	•		•	•	•
	1-478-136-11	INVERTER MURATA For 2 LAMPS LCD	•	•	•	•	•	•		•	•	•	•	•		•	•	•	•	•	•	•					
81	A-1178-758-A	MS04 ASSY ODD PANA SMDL(W)	•	•	•																						
	A-1152-205-A	MS03 ASSY ODD Pioneer DVD+/-RW DL(W)				•	•	•	•	•		•		•	•	•	•			•	•	•	•		•	•	
	A-1152-206-A	MS03 ASSY ODD Pioneer DVD+/-RW DL(G)									•							•									
	A-1178-760-A	MS04 ASSY ODD PANA DVD+/-RW DL(W)				•	•	•	•	•		•		•	•												
	A-1178-761-A	MS04 ASSY ODD PANA DVD+/-RW DL(G)								•																	
	A-1152-208-A	MS03ASSY ODD SONY DVD+/-RW DL(W)				•	•				•			•	•					•	•	•	•		•	•	
	A-1152-209-A	MS03 ASSY ODD SONY DVD+/-RW DL(G)								•								•									
	A-1178-762-A	MS04 ASSY ODD PANA DVD+/-RW DL(W)				•	•	•	•	•		•		•	•					•	•	•	•		•	•	
	A-1178-763-A	MS04 ASSY ODD PANA DVD+/-RW DL(G)								•									•								
	A-1152-210-A	MS03 ASSY ODD Pioneer HMDL(W)	•	•	•																						
	A-1156-463-A	MS03 ASSY ODD PANA HMDL(W)	•	•	•																						

T-1. SUBSTITUTION PARTS LIST

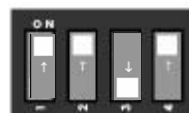
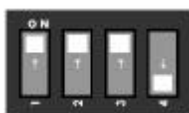
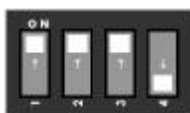
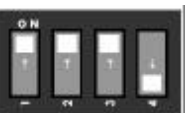
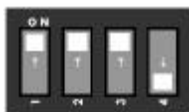
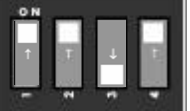
T-1

* : CTO Model

Ref.No.	Part No.	Description	J		AM												EU						AO					
			FS53B	FS33B	FS23B	FS850P	FS850	FS840	FS830	FS810	FS875P	FS815F	FS810FP	FS812F	FS850Q	FS830Q	FS8900P*	FS8900*	FS495VP	FS415M	FS415E	FS415MR	FS415S	FS415B	FS48C	FS48GP	FS48SP	FS48L
91	A-1152-169-A	MS03 ASSY HDD 120GB(FJ)								•																		
	A-1152-170-A	MS03 ASSY HDD 120GB(HGST)	•																									
	A-1152-171-A	MS03 ASSY HDD 120GB(TO)	•																									
	A-1152-196-A	MS03 ASSY HDD 100GB(FJ)		•		•												•				•						
	A-1152-197-A	MS03 ASSY HDD 100GB(HGST)				•		•						•				•				•						
	A-1127-961-A	MS02 ASSY HDD 100GB(TO)		•		•	•	•						•				•				•						
	A-1178-764-A	MS04 ASSY HDD 100GB(HGST)		•		•	•	•						•				•				•						
	A-1152-198-A	MS03 ASSY HDD 80GB(FJ)			•				•	•									•	•				•				
	A-1152-199-A	MS03 ASSY HDD 80GB(HGST)			•				•			•								•	•			•				
	A-1108-905-A	MS01 ASSY HDD 80GB(TO)							•	•		•				•			•		•	•						
	A-1177-908-A	MS04 ASSY HDD 80GB(HGST)			•				•	•		•				•			•	•	•		•					
A-1108-908-A	MS01 ASSY HDD 60GB(TO)											•	•												•	•		
△2005	1-790-732-81 &	POWER CORD For J (Hirakawa)	•	•	•																							
	1-829-810-31 &	POWER CORD For U (Hirakawa) (also for PORT REPLICATOR)				•	•	•	•	•	•	•	•	•	•	•												
	1-824-910-41 &	POWER CORD For E (non GB) (Hirakawa)																•	•	•		•	•			•		
	1-823-935-61 &	POWER CORD For E (GB) (Hirakawa)																	•	•		•	•					
	1-782-476-61 &	POWER CORD For C (Hirakawa)																							•			
△2006	1-479-114-51	AC Adaptor Sony VGP-AC19V10 (Delta)	•	•	•	•	•	•	•	•				•	•			•	•	•		•	•					
△2032	1-479-364-11 &	ADAPTOR, AC (SPEAKER)														•	•											
△2034	1-829-810-31 &	CORD, POWER (U) (SPEAKER)														•	•											

DIP Switch

The DIP switch setting is following table.

J	VGN-FS53B 	VGN-FS33B 	VGN-FS23B 				15.4inch WXGA(HC) 			
AM	VGN-FS850P 	VGN-FS850 	VGN-FS840 	VGN-FS830  (QDI)  (CPT)		VGN-FS810  (QDI)  (CPT)		VGN-FS875P 	15.4inch WXGA(QDI) 	
	VGN-FS815F 	VGN-FS810FP 	VGN-FS812F 	VGN-FS850Q 		VGN-FS830W  (QDI)  (CPT)		VGN-FS8900P*/FS8900* 	15.4inch WXGA(CPT) 	
EU	VGN-FS495VP 	VGN-FS415M 	VGN-FS415E 	VGN-FS415MR 		VGN-FS415S 		VGN-FS415B 		
AO	VGN-FS48C 	VGN-FS48GP 	VGN-FS48SP 	VGN-FS48L 						Note: When replacing LCD from CPT to QDI, please change the DIPs switch from 15.4inch WXGA(CPT) to 15.4inch WXGA (QDI).

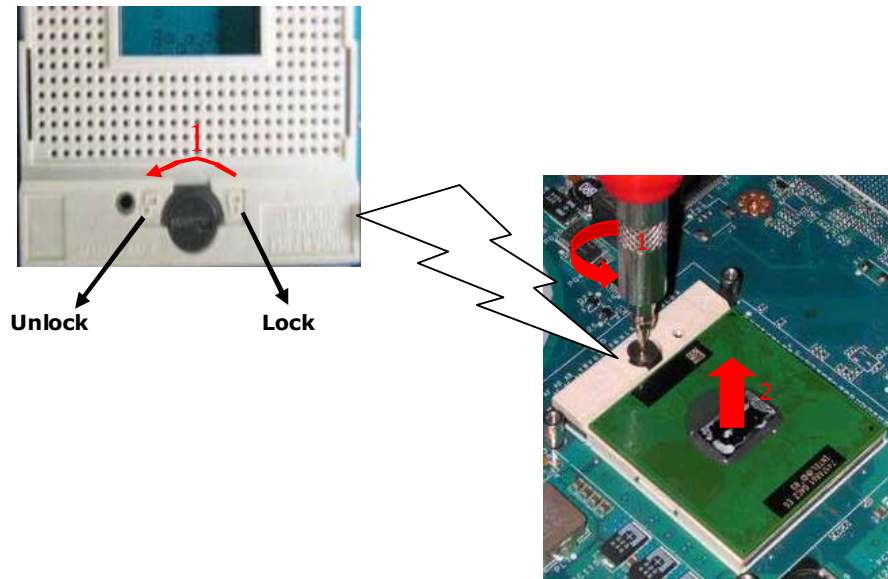
The DIP switch setting is different depending the types of LCD.
Set the DIP switch of CTO model in accordance with the [FOR CTO MODEL].

CHAPTER 5. OTHERS

5-1.Replacing the CPU

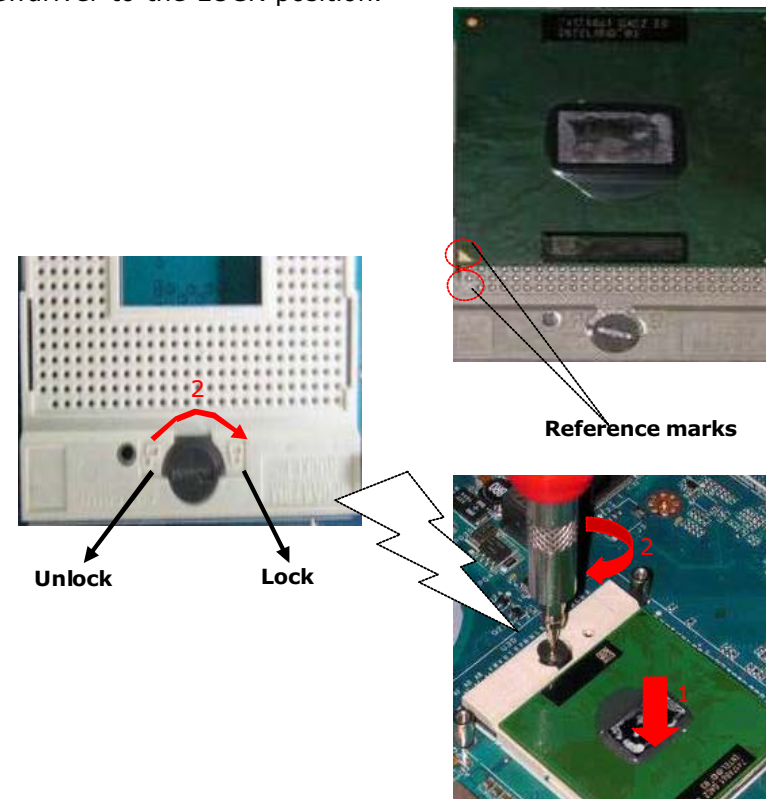
1. Removing the CPU

1. Insert a flat-blade screwdriver into the notch as shown illustration and rotate it so that the protrusion comes to the lock release position.
2. Pull the CPU gently upward to lift it out of the CPU socket



2. Installing the CPU

1. Align the triangle reference mark of the mark the CPU with that of the CPU socket and insert all the pins of the CPU to the corresponding holes of the CPU socket.
2. Insert the flat head (-) screwdriver into the specified position and rotate the screwdriver to the LOCK position.



5-2. Wiring the W-LAN Cable

* The MS02 PWA ANTENNA is installed also in the models without Wireless LAN.
Refer to the instruction below to see how to wire the CABLE.



Using KAPTION TAPE to secure the Cable.



VGN- FS53B/FS33B/FS23B (J)
VGN- FS850P/FS850Q/FS840Q/FS830Q/FS810Q/FS875P/FS815F/FS810FP/FS812F/FS850Q/FS830Q/FS8900P/FS8900 (AM)
VGN- FS495VP/FS415M /FS415E /FS415MR/FS415S/FS415B (EU)
VGN- FS48C/FS48GP/FS48SP/FS438L (AO)

List of VGN-F Series (As of Jan, 2006)

Service Manual Part No.	Model Name												
	J			AM				EU			AO		
9-876-414-XX	VGN-FS70B	VGN-FS20		VGN-FS570	VGN-FS540P	VGN-FS500 *	VGN-FS550F	VGN-FS195XP	VGN-FS115M	VGN-FS115B	VGN-FS18CP	VGN-FS18SP	VGN-FS15GP VGN-FS15TP
	VGN-FS50B	VGN-FS90PS *		VGN-FS550	VGN-FS530B	VGN-FS500P *		VGN-FS115Z	VGN-FS115E	VGN-FS115ZR	VGN-FS15C	VGN-FS18LP	VGN-FS15SP
	VGN-FS30B	VGN-FS90S *		VGN-FS550P	VGN-FS520B	VGN-FS500B *		VGN-FS115S	VGN-FS195VP	VGN-FS115MR	VGN-FS18GP	VGN-FS18TP	VGN-FS15LP
9-876-425-XX	VGN-FS71B	VGN-FS21		VGN-FS680	VGN-FS635B	VGN-FS630F	VGN-FS610FP VGN-FS690B *	VGN-FS295XP	VGN-FS215E	VGN-FS285E	VGN-FS28C	VGN-FS28TP	
	VGN-FS51B	VGN-FS91PS *		VGN-FS660P	VGN-FS625B	VGN-FS615F	VGN-FS690 *	VGN-FS215Z	VGN-FS215SR	VGN-FS215S	VGN-FS25C	VGN-FS25GP	
	VGN-FS31B	VGN-FS91PSY *		VGN-FS660	VGN-FS645P	VGN-FS640Q	VGN-FS620	VGN-FS215M	VGN-FS215MR	VGN-FS285H	VGN-FS28GP	VGN-FS25SP	
	VGN-FS21B	VGN-FS91S *		VGN-FS640	VGN-FS670FG	VGN-FS655FP	VGN-FS630	VGN-FS295VP	VGN-FS285M		VGN-FS28SP	VGN-FS25LP	
				VGN-FS675P	VGN-FS650F	VGN-FS640FP	VGN-FS690P *	VGN-FS215B	VGN-FS285B		VGN-FS28LP	VGN-FS25TP	
9-876-443-XX	VGN-FS52B	VGN-FS92S		VGN-FS780	VGN-FS750P	VGN-FS730F	VGN-FS790P *	VGN-FS315Z	VGN-FS315SR		VGN-FS38C	VGN-FS38TP	
	VGN-FS22B	VGN-FS92PS *		VGN-FS760	VGN-FS730	VGN-FS715F	VGN-FS790B *	VGN-FS395VP	VGN-FS315MR		VGN-FS35C	VGN-FS35GP	
	VGN-FS32B	VGN-FS92S *		VGN-FS740	VGN-FS715	VGN-FS755FP	VGN-FS790 *	VGN-FS315M	VGN-FS315H		VGN-FS38GP	VGN-FS35SP	
	VGN-FS22VB			VGN-FS720	VGN-FS742	VGN-FS740FP	VGN-FS790BH *	VGN-FS315B	VGN-FS315S		VGN-FS38SP	VGN-FS35LP	
				VGN-FS775P	VGN-FS710	VGN-FS710FP		VGN-FS315E			VGN-FS38LP	VGN-FS35TP	
				VGN-FS745P	VGN-FS770FG	VGN-FS760Q							
				VGN-FS770	VGN-FS750F	VGN-FS740Q							
9-876-449-XX	VGN-FS53B			VGN-FS850P	VGN-FS810	VGN-FS812F	VGN-FS8900 *	VGN-FS495VP	VGN-FS415S		VGN-FS48C		
	VGN-FS33B			VGN-FS850	VGN-FS875P	VGN-FS850Q		VGN-FS415M	VGN-FS415B		VGN-FS48GP		
	VGN-FS23B			VGN-FS840	VGN-FS815F	VGN-FS830Q		VGN-FS415E			VGN-FS48SP		
				VGN-FS830	VGN-FS810FP	VGN-FS8900P *		VGN-FS415MR			VGN-FS48L		

*: CTO Model

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Revision History

Suffix	Ver.	Date	Contents	QM No.
-01	Ver.1	2006.01.10	First Edition	
<Remarks>				